

STATE OF IDAHO Department of Fish and Game

Joseph C. Greenley, Director

Annual Project Closing Report

PAHSIMEROI RIVER DEVELOPMENT
OF SUNNIER CHINOOK STOCKS

Project No. 88272403

Contract No. 03-5-208-00026

Period Covered: July 1, 1974 to June 30, 1975

Columbia River Fisheries Development Program

October, 1975

Pahsimeroi River Development of Summer Chinook Stocks

Fish Collection

Chinook salmon were collected at the Idaho Power Company weir on the Pahsimeroi River. Fish arriving at the weir prior to July 15 were counted and released to spawn above the weir. Fish arriving at the weir after July 15 amounted to 155 and were held for egg-taking. This figure was about 25% of average. The run into the Pahsimeroi facilities peaked in early August (Table 1).

Egg Taking

In September, we took 220,000 eggs. Eye-up percentage was 78%, leaving 172,000 eggs which were transferred to Mackay Hatchery for rearing.

Rearing

The fish were reared at Mackay Hatchery from October, 1974, to March, 1975. A total of 118,000 summer chinook fingerlings (410 pounds) at 288 per pound were transported to and planted in the Pahsimeroi River rearing pond. The chinook in the pond were fed daily.

Release

We released 114,560 summer chinook fingerlings (1974 brood year) on May 30. The fish were released directly into the Pahsimeroi River from the rearing pond and out-migration appeared to occur rapidly. The fish averaged 40 per pound and 104.3 mm at time of release. Survival from green egg to release was 52.1%. The release included 25,000 fish with a left ventral fin clip.

Return of Adults

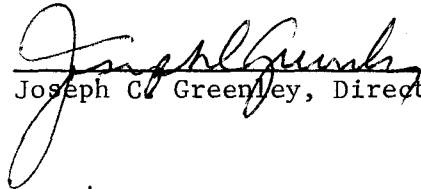
Evaluation of the return of adults, by recovery of fin-marked fish, progress was possible for a complete life cycle of fish in 1974. Assuming that marked and unmarked chinook returned at the same rate, 145 fish returned from the 1970 brood year. The percentage return for the 1970 brood year was computed to be 0.058 (Table 2).

Prepared by:

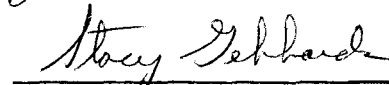
David W. Ortmann
Anadromous Fishery Supervisor

Approved by:

IDAHO DEPARTMENT OF FISH AND GAME



Joseph C. Greenley, Director



Stacy Gebhards, Chief
Bureau of Fisheries

Table 1. Timing of arrival of adult summer chinook salmon at Pahsimeroi River trap, 1974.

<u>Date</u>	<u>Number of fish</u>	Cumulative total
July 8	1	1
July 9		
July 10		
July 11	1	2
July 12		
July 13	2	4
July 14		
July 15		
July 16		
July 17		
July 18	12	16
July 19		
July 20		
July 21		
July 22	11	27
July 23		
July 24		
July 25	8	35
July 26		
July 27		
July 28		
July 29	13	48
<i>July 30</i>		
July 31		
August 1		
August 2		
August 3		
August 4		
August 5		
August 6		
August 7		
August 8		
August 9	10	91
August 10		
August 11		
August 12	7	98
August 13		
August 14		
August 15		
August 16		
August 17		
August 18		
August 19	6	104
August 20		
August 21	2	106

Table 1. Timing of arrival of adult summer chinook salmon at Pahsimeroi River trap, 1974 (continued).

<u>Date</u>	<u>Number of fish</u>	<u>Cumulative total</u>
August 22		
August 23		
August 24		
August 25		
August 26	4	110
August 27		
August 28		
August 29		
August 30	8	118
August 31		
September 1		
September 2		
September 3	5	123
September 4		
September 5		
September 6	7	130
September 7		
September 8		
September 9		
September 10		
September 11		
September 12		
September 13	11	141
September 14		
September 15		
September 16		
September 17		
September 18	10	151
September 19		
September 20		
September 21		
September 22		
September 23		
September 24	4	155

Table 2. Summary of operations, Pahsimeroi River summer chinook propagation project.

Brood year	Eggs taken	Time of release	Number released	Size	Number marked	Mark	<u>Adult Returns</u> ^{1/}			Percent return
							Jacks	2-ocean	3-ocean	
1969	464,150	May, 1970	393,840	40/lb. 102 mm	-0-	--				
1970	443,772	May, 1971	252,071	49/lb.	50,500	RV	0 (1972)	75 (1973)	70 (1974)	0.058
1971	356,628	May, 1972	102,000	46/lb.	52,000	LV / An	0 (1973)	25 (1974)	(1975)	
		Sept., 1972	129,182	11/lb.	46,000	RV / An	1 (1974) 1	(1975)	(1976)	
1972	383,000	May, 1973	217,000	50/lb.	30,000	RV	22 (1974)	(1975)	(1976)	
1973	496,860	May, 1974	330,037	41/lb.	-0-	--	(1975)	(1976)	(1977)	
1974	219,000	May, 1975	114,560	40/lb. 104 mm	25,000	IV	(1976)	(1977)	(1978)	

^{1/} Assuming that marked and unmarked fish returned at same rate.